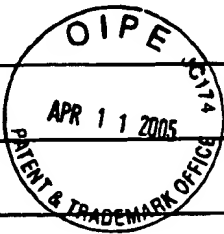
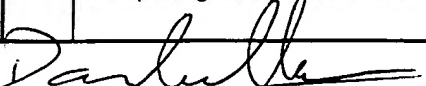
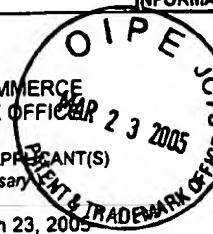



Sheet 1 of 1		INFORMATION DISCLOSURE STATEMENT					
FORM PTO 1449 (modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary) Date Submitted to PTO: April 11, 2005		ATTY DOCKET NO. 2000_1420		SERIAL NO. 09/686,467			
		APPLICANT Mitsuki OSHIMA et al.					
		FILING DATE October 12, 2000		GROUP 2634			
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	AA						
	AB						
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FOREIGN PATENT DOCUMENTS							
DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO		
	AJ						
	AK						
	AL						
	AM						
	AN						
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
DH	AO	J. A. C. Bingham, "Multicarrier Modulation for Data Transmission: An Idea Whose Time Has Come", IEEE Communications Magazine, Vol. 28, May 1990, pages 5-8 and 11-14					
DH	AP	B. Hiroaki, "An Orthogonally Multiplexed QAM System Using the Discrete Fourier Transform", IEEE Transactions on Communications, Vol. Com-29, No. 7, July 1981, pages 982-989					
DH	AQ	L. J. Cimini, Jr., "Analysis and Simulation of a Digital Mobile Channel Using Orthogonal Frequency Division Multiplexing", IEEE Transactions on Communications, Vol. Com-33, No. 7, July 1985, pages 665-675 and Annex					
EXAMINER 			DATE CONSIDERED 06/07/05				

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include cop. this form with next communication to applicant.

Sheet 1 of 2		INFORMATION DISCLOSURE STATEMENT					
FORM PTO 1449 (modified)				ATTY DOCKET NO. 2000_1420		SERIAL NO. 09/686,467	
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE							
LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)							
Date Submitted to PTO: March 23, 2005				FILING DATE October 12, 2000		GROUP 2634	
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DA	AA	3,824,548	7-16-74	Sullivan et al.	—	—	—
	AB	3,959,726	5-25-76	Hinoshita et al.	—	—	—
	AC	4,303,939	12-1-81	Stephens et al.	—	—	—
	AO	4,303,941	12-1-81	Marti et al.	—	—	—
	AE	4,309,726	1-5-82	Tanaka et al.	—	—	—
	AE	4,535,352	8-85	Haskell	—	—	—
	AG	4,564,858	1-14-86	Resch	—	—	—
	AH	4,581,639	4-8-86	Judge	—	—	—
	AI	4,769,819	9-6-88	Matsutani et al.	—	—	—
	AJ	4,794,447	12-27-88	Tsinberg	—	—	—
	AK	4,817,192	3-28-89	Phillips et al.	—	—	—
	AL	5,029,003	7-91	Jonnalagadda	—	—	—
	AM	5,134,464	7-28-92	Basile et al.	—	—	—
	AN	5,400,084	3-21-95	Scarpa	—	—	—
	DA	AO	5,214,656	5-25-93	Chung et al.	—	—
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
DA	AP	3-48587	3-1-91	Japan			abstract
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
DA	AQ	Masafumi SAITO et al., "Bit Error Rate Characteristics of OFDM in Multipath Environment", 1991					
DA	AR	Ryutaro OHMOTO et al., " $\pi/4$ -shift QPSK Subcarrier Transmission", 1991					
EXAMINER 				DATE CONSIDERED 06/07/05			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include cop. this form with next communication to applicant.

INFORMATION DISCLOSURE STATEMENT							
Sheet 2 of 2		FORM PTO 1449 (modified)		ATTY DOCKET NO. 2000_1420		SERIAL NO. 09/686,467	
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE				APPLICANT Mitsuaki OSHIMA et al.			
LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)				FILING DATE October 12, 2000		GROUP 2634	
Date Submitted to PTO: March 23, 2005							
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DH	AA	5,181,112	1-19-93	Citta et al.	_____	_____	_____
	AB	5,377,051	12-27-94	Lane et al.	_____	_____	_____
	AC	5,576,902	11-19-96	Lane et al.	_____	_____	_____
	AD	5,218,622	6-8-93	Fazel et al.	_____	_____	_____
	AE	5,561,468	10-1-96	Bryan et al.	_____	_____	_____
	AF	5,598,220	1-97	Citta et al.	_____	_____	_____
	AG	5,802,241	9-1-98	Oshima	_____	_____	_____
	AH	4,800,426	1-24-89	Glenn	_____	_____	_____
DH	AI	5,007,088	4-9-91	Ooi et al.	_____	_____	_____
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AJ						
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	AN						
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AO						
	AP						
	AQ						
EXAMINER <i>Paul H. [Signature]</i>				DATE CONSIDERED 06/07/05			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include cop. this form with next communication to applicant.

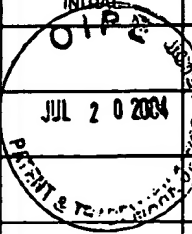
FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)
(Use several sheets if necessary)

Date Submitted to PTO: July 20, 2004

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09/686,467APPLICANT
Mitsuaki OSHIMA et al.FILING DATE
October 12, 2000GROUP
2634

U.S. PATENT DOCUMENTS

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	AA						
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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
DA	AJ	2-154583	6-13-90	Japan			abstract
	AK						
	AL						
	AM						
	AN						

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

DA	AO	Shigeki MORIYAMA et al., "Delay Propagation Characteristics at VHF and UHF bands in Urban Area", 1991 Spring National Convention Record, The Institute of Electronics, Information and Communication Engineers, Part 2, p. 406, March 15, 1991
DA	AP	Yasuhiro ITO et al., "Adaptive Weighted Code Division Multiplexing (AW-CDM) Transmission System for Terrestrial Digital Television Broadcasting", ITE Technical Report Vol. 17, No. 13, pp 27-32, February 25, 1993
	AQ	

EXAMINER

DATE CONSIDERED

06/07/05

FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)
(Use several sheets if necessary)

Date Submitted to PTO: January 30, 2004

ATTY DOCKET NO.
2000_1420SERIAL NO.
09/686,467APPLICANT
Mitsuaki OSHIMA et al.FILING DATE
October 12, 2000GROUP
2634

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DIPE	AA	5,128,758	7-7-92	Azadegan et al.	—	—	—
AN 3 0 2004	AB	5,038,402	8-6-91	Robbins	—	—	—
	AC	5,638,112	6-10-97	Bestler et al.	—	—	—
	AD	5,063,445	11-5-91	Nishizawa et al.	—	—	—
	AE	5,819,000	10-6-98	Oshima	—	—	—
	AF	5,999,569	12-7-99	Oshima	—	—	—
	AG	5,892,879	4-6-99	Oshima	—	—	—
	AH	6,049,651	4-11-00	Oshima	—	—	—
DH	AI	6,256,357	7-3-01	Oshima	—	—	—

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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
DA	AJ	3-69295	3-25-91	Japan	—	—		X
	AK	2-260726	10-23-90	Japan	—	—		X
	AL	58-161427	9-26-83	Japan	—	—	abstract	
	AM	57-39629	3-4-82	Japan	—	—	abstract	
DH	AN	58-161547	9-26-83	Japan	—	—	abstract	

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

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	AP	
	AQ	
EXAMINER	DATE CONSIDERED	

FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE
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Date Submitted to PTO: January 30, 2004

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Mitsuaki OSHIMA et al.FILING DATE
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U.S. PATENT DOCUMENTS

*EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DA	AA	5,170,413	12-8-92	Hess et al.			
JAN 30 2004	AB						
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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
DA	AH	63-180222	7-25-88	Japan			abstract
	AI	2-94814	4-5-90	Japan			abstract
	AJL	61-70861	4-11-86	Japan			abstract
	AK	2-218279	8-30-90	Japan			abstract
	AL	2,095,435	5-10-92	Canada			X
	AM	91/20137	12-26-91	WO			X
DA	AN	92/22162	12-10-92	WO			X

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

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